PLEASE NOTE: YOU MUST COMPLETE THE FOLLOWING

'TEWART, KOLASCH & BIRC' P.O. Box 747 . Falls Church, Virginia 22040-0747 elephone: (703) 205-8000 • Facsimile: (703) 205-8050

COMBINED DECLARATION AND POWER OF ATTORNEY FOR PATENT AND DESIGN APPLICATIONS

As a below named inventor, I hereby declare that: my residence, post office address and citizenship are as stated next to my name; that I verily believe that I am the original, first and sole inventor (if only one inventor is named below) or an original, first and joint inventor (if plural inventors are named below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

SI-BASED RESONANT INTERBAND TUNNELING DIODES AND METHOD OF MAKING INTERBAND TUNNELING DIODES

Insert	Title:	

Page 1 of 2

Fill in Appropriate		h is attached hereto. If not attached	hereto,			
Information -	the specification w	as filed on May 5, 2000		as		
For Use Without Specification	United States Application Number <u>09/565,455</u> and amended on			(if applicable) and/or		
Attached:	the specification w	as filed on		as PCT		
Timbolioa.	International Appli	cation Number		; and was		
	amended under PC	T Article 19 on		(if applicable)		
•	any amendment referred I acknowledge the	I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, §1.56.				
	patented or described in that the same was not in not been patented or ma	any printed publication in any count public use or on sale in the United de the subject of an inventor's certi	nown or used in the United States of America be ry before my or our invention thereof or more th States of America more than one year prior to th ficate issued before the date of this application	an one year prior to this application is application, that the invention has n any country foreign to the United		
	this application, and that States of America prior t I hereby claim fore	t no application for patent or invent o this application by me or my legal ign priority benefits under Title 35,	representative or assigns more than twelve monor's certificate on this invention has been filed in representatives or assigns, except as follows. United States Code, §119(a)-(d) of any foreign a preign application for patent or inventor's certification.	n any country foreign to the United upplication(s) for patent or inventor's		
	the application on which					
Insert Priority	Prior Foreign Applica	tion(s)		Priority Claimed		
Information		-				
(if appropriate)	(Number)	(Country)	(Month/Day/Year Filed)	Yes No		
Pire Pire						
	(Number)	(Country)	(Month/Day/Year Filed)	Yes No		
	(Number)	(Country)	(Month/Day/Year Filed)	☐ ☐ Yes No		
म् मुक	(1.amour)	(County)	(Month Day, 1 car 1 hea)			
B TEN.	(Number)	(Country)	(Month/Day/Year Filed)	☐ ☐ Yes No		
	I hereby claim the benefi	t under Title 35, United States Code	;, §119(e) of any United States provisional applic	ntions(s) listed below.		
Insert Provisional	60/133,067		May 7, 1999			
Application(s): (if any)	(Application Number)		(Filing Date)			
hit Eth	(Application Number)		(Filing Date)			
	All Foreign Applications, if any, for any Patent or Inventor's Certificate Filed More than 12 Months (6 Months for Designs) Prior to the Filing Date of This Application:					
	Country	Application Nu	mber Date of Filing (Mor	th/Day/Year)		
Insert Requested Information: (if appropriate)						
	the subject matter of eac provided by the first par patentability as defined i	ch of the claims of this application agraph of Title 35, United States C	de, §120 of any United States and/or PCT applic is not disclosed in the prior United States and ode, §112, I acknowledge the duty to disclose it tions, §1.56 which became available between the cation.	Vor PCT application in the manner nformation which is material to the		
Insert Prior U.S. Application(s): (if any)	(Application Number)	(Filing Date)	(Status - patented, p	ending, abandoned)		
	(Application Number)	(Filing Date)	(Status - patented, p	ending, abandoned)		

I hereby appoint the following attorneys to prosecute this application and/or an intermoderate all business in the Parameter of Trademark Office connected therewith and in connect.

The resulting patent based on instructions attorneys with a written notice to the contrary:

Raymond C. Stewart	(Reg. No. 21,066)	Terrell C. Birch	(Reg. No. 19,382)
Joseph A. Kolasch	(Reg. No. 22,463)	James M. Slattery	(Reg. No. 28,380)
Bernard L. Sweeney	(Reg. No. 24,448)	Michael K. Mutter	(Reg. No. 29,680)
Charles Gorenstein	(Reg. No. 29,271)	Gerald M. Murphy, Jr.	(Reg. No. 28,977)
Leonard R. Svensson	(Reg. No. 30,330)	Terry L. Clark	(Reg. No. 32,644)
Andrew D. Meikle	(Reg. No. 32,868)	Marc S. Weiner .	(Reg. No. 32,181)
Joe McKinney Muncy	(Reg. No. 32,334)	Donald J. Daley	(Reg. No. 34,313)
John W. Bailey	(Reg. No. 32,881)	John A. Castellano	(Reg. No. 35,094)
Gary D. Yacura	(Reg. No. 35 416)		, ,

Send Correspondence to:

BIRCH, STEWART, KOLASCH & BIRCH, LLP

or

Customer No. 2292

P.O. Box 747 • Falls Church, Virginia 22040-0747

Telephone: (703) 205-8000 • Facsimile: (703) 205-8050

PLEASE NOTE: YOU MUST COMPLETE THE FOLLOWING:

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

GIVEN NAME/FAMILY NAME	DIVENTOR'S SIGNATURE		DATE	*	
Paul R. Berger	1 JW 8.7/	_	7	3	00
Residence (City, State & Country)		CITIZENSHI	IP I		<u> </u>
Newark, DE 19711-2593 U.S.A.		U.S.A.			
POST OFFICE ADDRESS (Complete Street Ad	dress including City, State & Country)				
17 West Ridge Court, Newark, DE 19711-2593	U.S.A.				
GIVEN NAME/FAMILY NAME	INVENTOR'S SIGNATURE		DATE	;*,	
Phillip E. Thompson	Phillip E. Homos	^	7/1	1/2	000
Residence (City, State & Country)		CITIZENSHI	IP.	1	
Springfield, VA 22153 U.S.A.	·	U.S.A.			
POST OFFICE ADDRESS (Complete Street Ad	dress including City, State & Country)				
8316 Kings Ridge Court, Springfield, VA 22153	U.S.A.				
GIVEN NAME/FAMILY NAME	INVENTOR'S SIGNATURE		DATE	*	
Roger Lake	Koger Lake		7/	19	100
Residence (City, State & Country)		CITIZENSHI	P	/	
Dallas, TX 75214 U.S.A.		U.S.A.			
POST OFFICE ADDRESS (Complete Street Ad	dress including City, State & Country)				
6712 Bob-o-link Drive, Dallas, TX 75214 U.S.A	A				
GIVEN NAME/FAMILY NAME	INVENTOR'S SIGNATURE,	, 0	DATE	*	
Karl Hobart	Kung Ocho	bunt	Jul	م ۱	1,2000
Residence (City, State & Country)		CITIZENSHI	P		
Upper Mariboro, MD 20772 U.S.A.		U.S.A.			
POST OFFICE ADDRESS (Complete Street Ad	dress including City, State & Country)				
8610 Croom Road, Upper Marlboro, MD 20772	U.S.A.				

see above

Page 2 of 2 (Rev. 04/08/2000)

^{*}DATE OF SIGNATURE

•					
Full Name of Fifth Inventor, if any:	GIVEN NAME/FAMILY	INVENTOR'S STONATURE		DATE*	
see above	Sean L. Rommel	1 4 11/4(/		July 10 scors	
- '	Residence (City, State & Country)		CITIZENSHIP	0 (1y 10 , xue)	
`					
•	Champaign, IL 61821 U.S.A.		U.S.A.		
	POST OFFICE ADDRESS (Complete Street Address	including City, State & Country)			
	208 Kenwood Road #327, Champaign, IL 61821 U.S.	A.			
Full Name of Sixth	GIVEN NAME/FAMILY NAME	INVENTOR'S SIGNATURE	· · · · · · · · · · · · · · · · · · ·	2.00	
Inventor, if any: see above	GIVEN NAME/FAMILY NAME	INVENTOR'S SIGNATURE		DATE*	
	Residence (City, State & Country)		CITIZENSHIP		
	·				
	POST OFFICE ADDRESS (Complete Street Address	including City, State & Country)	<u> </u>		
	` '	3 ,,, , ,, ,, ,, ,,,,,,,,,,,,,,,,,,,,,,			
	•				
Full Name of Seventh Inventor, if any:	GIVEN NAME/FAMILY NAME	INVENTOR'S SIGNATURE		DATE*	
sec above					
	Residence (City, State & Country)	L	CITIZENSHIP		
	POOT OFFICE AND ADDRESS OF				
	POST OFFICE ADDRESS (Complete Street Address	including City, State & Country)			
	·				
Full Name of Eighth	GIVEN NAME/FAMILY NAME	INVENTOR'S SIGNATURE		DATE*	
invertor, if any: see above		"		DAIL	
	Paridam (City Chan & County)				
13 15 13 15 13 15	Residence (City, State & Country)		CITIZENSHIP		
	POST OFFICE ADDRESS (Complete Street Address	including City, State & Country)			
Full Name of Ninth a	CHENNALORIE				
Full Name of Nigth Inventor, if any see above	GIVEN NAME/FAMILY NAME	INVENTOR'S SIGNATURE		DATE*	
r i					
er.	Residence (City, State & Country)		CITIZENSHIP		
	POST OFFICE ADDRESS (Complete Street Address	including City, State & Country)	•		
Full Name of Texts					
Inventor, if anyting	GIVEN NAME/FAMILY NAME	INVENTOR'S SIGNATURE		DATE*	
see above		· ·			
	Residence (City, State & Country)		CITIZENSHIP		
	POST OFFICE ADDRESS (Complete Street Address	including City State & Country)			
	, , , , , , , , , , , , , , , , , , ,				
Full Name of Eleventh Inventor, if any:	GIVEN NAME/FAMILY NAME	INVENTOR'S SIGNATURE		DATE*	
see above			İ		
	Residence (City, State & Country)		CITIZENSHIP		
,	•		••		
	POST OFFICE ADDRESS (C				
	POST OFFICE ADDRESS (Complete Street Address	including City, State & Country)			
Full Name of Twelfth Inventor, if any:	GIVEN NAME/FAMILY NAME	INVENTOR'S SIGNATURE	T	DATE*	
see above	.				
·	Residence (City, State & Country)		CITIZENETIE		
	Acondonico (City, State & Country)	·	CITIZENSHIP		
		_			
	POST OFFICE ADDRESS (Complete Street Address	including City, State & Country)			

Page 3 of 3 (Rev. 04/08/2000)